

IN THE CLAIMS:

Claims 1-107 (cancel without prejudice).

Claim 108 (currently amended): The apparatus of claim 407 230 comprising an illumination head comprising at least two converging collimated beams from at least two directions, each of said beams generated by a separate light source positioned at a distance from said other at least one light source.

Claim 109 (currently amended): The apparatus of claim 407 230 wherein the at least one light source is an ion krypton gas laser light source.

Claim 110 (currently amended): The apparatus of claim 407 230 wherein the system for shaping and collecting the spectral emittance is an optical system comprising two orthogonal cylindrical lenses.

Claim 111 (currently amended): The apparatus of claim 407 230 wherein each of the spectral bands is a narrow spectral band.

Claim 112 (currently amended): The apparatus of claim 407 230 further comprising cooling means for removing excess heat from the treatment area of the skin disorder during said discontinuous applications.

Claim 113 (currently amended): The apparatus of claim ~~107~~ 230 wherein the spectral emittance means comprises means for delivering a dose of at least 18 Joules/cm².

Claim 114 (currently amended): The apparatus of claim ~~107~~ 230 wherein the spectral emittance means comprises means for delivering a dose of at least 36 Joules/cm².

Claim 115 (currently amended): The apparatus of claim ~~107~~ 230 wherein the light source emits UV radiation, said apparatus further comprising filtering means for removing at least substantially all of the UV radiation emitted by the light source.

Claim 116 (canceled without prejudice).

Claim 117 (currently amended): The apparatus of claim ~~107~~ 230 wherein said light source delivers a principal skin disorder treating effective spectral emittance of light energy range in the range of 405 to 450nm.

Claim 118 (currently amended): The apparatus of claim ~~107~~ 230, wherein said parameters are selected from the group consisting of duration, radiated power and emitted spectral bands of said spectral emittance.

Claims 119 and 120 (canceled without prejudice).

Claim 121 (currently amended): The apparatus of claim 107 230 wherein the treatment area is the head of a patient including a face and a chin, said light source comprising means for delivering the spectral emittance of energy to the face, the chin or combination thereof.

Claim 122 (currently amended): The apparatus of claim 107 230, wherein said spectral emittance has a power density of at least 20mW/cm².

Claim 123 (currently amended): The apparatus of claim 107 230 wherein said spectral emittance has a power density of at least 40mW/cm².

Claim 124 (currently amended): The apparatus of claim 107 230 comprising means for delivering the spectral emittance for a minimum treatment time of 15 minutes.

Claim 125 (original): The apparatus of claim 124 comprising means for delivering the spectral emittance for a treatment time of from 15 to 60 minutes.

Claim 126 (canceled without prejudice).

Claim 127 (currently amended): The apparatus of claim 107 230 wherein the adjustment means adjusts the distance or position of the light source to enable treatment of a treatment area of at least 200 cm² wherein the treatment area of the skin disorder is at least 200 cm².

Claim 128 (currently amended): The apparatus of claim 107 230, wherein the optical system further comprises:

at least one optical element selected from the group consisting of a liquid filled light guide, a solid transparent light guide, a fiber bundle light guide and an array of lenses and mirrors for collecting and shaping said spectral emittance and for illuminating a treatment area at an adjustable distance, energy density and direction.

Claim 129 (currently amended): The apparatus of claim 107 230, wherein said at least one light source is a gas discharge lamp.

Claim 130 (currently amended): The apparatus of claim 107 230, wherein said at least one light source comprises at least one material selected from the group consisting of Gallium, Mercury and metal halides in the form of a gas mixture discharge lamp.

Claim 131 (currently amended): The apparatus of claim 107 230, wherein said at least one light source further comprises at least one reflector for collecting and projecting the spectral emittance toward the skin disorder.

Claim 132 (original): The apparatus of claim 131 wherein said reflector is selected from the group comprising of an elliptical cross-section cylindrical reflector, a parabolic cross-section cylindrical reflector, and an asymmetric aspheric reflector.

Claim 133 (currently amended): The apparatus of claim 107 230, wherein the electronic means for controlling parameters associated with the spectral emittance comprises an integrated computer module.

Claim 134 (currently amended): The apparatus of claim 107 230, wherein said at least one light source is at least one diode selected from the group consisting of violet/blue laser diodes and light emitting diodes (LED), and combinations thereof with a narrow spectral band emission in the range 405-440nm.

Claim 135 (currently amended): The apparatus of claim 107 230, wherein said at least one light source is an array of diodes selected from the group consisting of violet/blue light emitting diodes (LED) and laser diodes, and red and green light emitting diodes (LED) and laser diodes.

Claim 136 (currently amended): The apparatus of claim 107 230, wherein said at least one light source is selected from the group consisting of LED diodes, laser diodes and gas discharge lamps and combinations thereof.

Claim 137 (currently amended): The apparatus of claim 107 230, wherein the ~~spectral bands of the~~ spectral emittance ~~are in the violet/blue range and of at least~~ one spectral band is in the green and red range.

Claim 138 (currently amended): The apparatus of claim ~~107~~ 230 wherein the skin disorder is selected from the group consisting of acne and seborrhea.

Claims 139 – 192 (canceled without prejudice).

Claim 193 (currently amended): The method of claim ~~194~~ 231 wherein the skin disorder is caused by skin disorder generating bacteria, said method comprising applying said spectral emittance of light energy for a time sufficient to facilitate the reaction of porphoryins produced by the bacteria and oxygen to produce peroxides which are toxic to the bacteria.

Claim 194 (currently amended): The method of claim ~~194~~ 231 comprising applying said spectral emittance of light energy at time periods which enable the porphoryins produced by the bacteria during the time period between each application to react with oxygen in the presence of said spectral emittance and consequently to produce peroxides and for the peroxides to kill the bacteria in sufficient amounts so as to reduce the mass of bacteria associated with the skin disorder, and repeating the application until the bacteria mass is reduced below a predetermined level.

Claim 195 and 196 (canceled without prejudice).

Claim 197 (currently amended): The method of claim 191 231 further comprising removing heat from the skin to maintain the skin at a patient acceptable temperature.

Claim 198 (currently amended): The method of claim 191 231 comprising applying to the treatment area a spectral emittance of light energy which has had UV radiation filtered therefrom.

Claim 199 (currently amended): The method of claim 191 231 comprising applying to the treatment area said peak spectral emittance of light energy principally in the range of 405 to 450nm.

Claim 200 (currently amended): The method of claim 191 231 wherein each discontinuous application is at least 15 minutes.

Claim 201 (currently amended): The method of claim 191 231 wherein each discontinuous application is from 15 to 60 minutes.

Claim 202 (currently amended): The method of claim 191 231 wherein the treatment area of the skin disorder is at least 200 cm².

Claim 203 (currently amended): The method of claim 191 231 comprising controlling parameters associated with the spectral emittance of light energy through an integrated computer module.

Claim 204 (original): The method of claim 203, wherein the integrated computer module comprises a display unit for displaying an imaged illumination treatment area.

Claim 205 (original) The method of claim 204 wherein the integrated computer module comprises a display unit comprising a touch screen.

Claim 206 (currently amended): The method of claim ~~494~~ 231, wherein the spectral emittance of light energy is from at least one diode selected from the group consisting of violet/blue laser diodes and light emitting diodes (LED), and combinations thereof with narrow spectral band emission in the range 405-440nm.

Claim 207 (currently amended): The method of claim ~~494~~ 231, wherein the spectral emittance of light energy is from an array of diodes selected from the group consisting of violet/blue light emitting diodes (LED) and laser diodes, and light emitting diodes (LED) and laser diodes with spectral bands emission in the red and green range.

Claim 208 (currently amended): The method of claim ~~494~~ 231, wherein the spectral emittance of light energy is from a member selected from the group consisting of LED diodes, laser diodes and gas discharge lamps and combinations thereof.

Claim 209 (currently amended): The method of claim ~~191~~ 231, wherein the spectral bands of the spectral emittance are in the violet/blue range and at least one spectral band in the green and red range.

Claim 210 (currently amended): The method of claim ~~191~~ 231 wherein the skin disorder is selected from the group consisting of acne and seborrhea.

Claim 211 - 229 (canceled without prejudice).

Claim 230 (new): Apparatus for the treatment of a treatment area exhibiting a skin disorder and associated inflammation lying at or near the surface of the skin of a patient comprising:

(a) a self supporting mechanical fixture for holding at least one light source in a fixed position spaced apart from the treatment area during treatment thereof, said mechanical fixture comprising securing means for operatively securing the light source to the fixture and adjustment means for adjusting the distance or position of the light source from the treatment area;

(b) at least one light source for emitting light with a peak spectral emittance concentrated in at least one narrow spectral band with the peak spectral emittance in one of said narrow spectral bands being in the range of 405 to 440 nm with an illumination power at the treatment area of 10 to 500 mw/cm², said securing means of the mechanical fixture securing the light source in said fixed position when the light source is emitting the light;

- (c) an optical system for collecting and shaping the spectral emittance in advance of delivering the spectral emittance to the treatment area; and
- (d) electronic means for controlling parameters associated with the spectral emittance.

Claim 231 (new): A method of treating a treatment area exhibiting a skin disorder at or near the surface of the skin of a patient comprising:

- (a) positioning in an operative treating position for treating a skin disorder a self supporting mechanical fixture comprising at least one light source in a fixed position spaced apart from the treatment area, said mechanical fixture comprising securing means for operatively securing the light source to the fixture, and adjustment means for adjusting the distance or position of the light source from the treatment area; and
- (b) applying to the treatment area in a plurality of discontinuous applications a peak spectral emittance of light energy at least in the substantial absence of UV radiation sufficient to effectively treat the skin disorder, said peak spectral emittance concentrated in at least one narrow spectral band with the peak spectral emittance of one of said narrow spectral bands being in the range of 405 to 440 nm with an illumination power at the treatment area of 10 to 500 mw/cm² while maintaining the treatment area at a patient acceptable temperature.